



Express Mail No. EV438678146US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kendall M. Mohler

Serial No.: 10/033,522

Group Art Unit 1646

Filed: October 18, 2001

Examiner J. Andres

For: METHODS FOR TREATING RHEUMATOID
ARTHRITIS USING IL-17 ANTAGONISTS

Docket No: 2982-A

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the duty of disclosure as set forth in 37 C.F.R. §1.56, §1.97 and §1.98, Applicant hereby discloses publications known to him which may be material to the patentability of this invention. The publications are listed on the Form PTO-1449 and are attached hereto. Please acknowledge receipt of this Statement and make the cited references of record in the subject application.

Pursuant to C.F.R. 1.97(c), Applicant authorizes the Commissioner to charge Applicant's deposit account no. 09-0089, \$180 under 37 C.F.R. 1.17(p) or the amount necessary to permit consideration of this Information Disclosure Statement. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

James E. Klaniecki
Attorney/Agent for Applicant
Registration No. 38,207
Phone: (206) 265-4145
Date : March 16, 2004

03/18/2004 CNGUYEN 00000118 090089 10033522
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I hereby certify that the enclosed correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10, and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Date: March 16, 2004

Signed:
Nanci M. Kertson

Form PTO-1449U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK

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2982-A

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10/033,522

OFFICE

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1646

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,869,286	2.9.99	Yao et al.			
	AB	6,072,033	6.6.00	Yao et al.			
	AC	6,083,906	7.4.00	Troutt			
	AD	6,096,305	8.1.00	Yao et al.			
	AE	6,100,235	8.8.00	Yao et al.			
	AF	6,191,104	2.20.01	Spriggs et al.			
	AG	6,197,525	3.6.01	Yao et al.			
	AH	6,680,057	1.20.04	Yao et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	FA	WO 95/18826	13.07.95	PCT				
	FB	WO 96/29408	26.09.96	PCT				
	FC	WO 97/04097	06.02.97	PCT				
	FD	WO 98/23284	04.06.98	PCT				
	FE	WO 99/60127	25.11.99	PCT				
	FF	WO 99/14240	25.03.99	PCT				
	FG	WO 00/15759	23.03.00	PCT				
	FH	WO 00/55204	21.09.00	PCT				
	FI	WO 01/68705	20.09.01	PCT				
	FJ	WO 01/68859	20.09.01	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PA	Aarvak et al., "Analysis of IL-17 and other cytokines and surface markers of RA inflammatory T cell clones," <i>American College of Rheumatology (ACR) meeting</i> , Poster 1448, November 1997.
PB	Amin, A. R. et al., "The expression and regulation of nitric oxide synthase in human osteoarthritis-affected chondrocytes: Evidence for up-regulated neuronal nitric oxide synthase," <i>J. Exp. Med.</i> , 182:2097-2102, December 1995.

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| | | Antonyamy, M. et al., "Evidence for a role of IL-17 in organ allograft rejection: IL-17 promotes the functional differentiation of dendritic cell progenitors," <i>J. Immunol.</i> , 162:577-584, 1999. |
| | PD | Attur, M. G. et al., "Interleukin-17 up-regulation of nitric oxide production in human osteoarthritis cartilage," <i>Arthritis & Rheumatism</i> , 40(6):1050-1053, 1997. |
| | PE | Baragi, V. M. et al., "Transplantation of transduced chondrocytes protects articular cartilage from interleukin 1-induced extracellular matrix degradation," <i>J. Clin. Invest.</i> , 96(5):2454-2460, 1995. |
| | PF | Caron, J. P. et al., "Chondroprotective effect of intraarticular injections of interleukin-1 receptor antagonist in experimental osteoarthritis," <i>Arthritis & Rheum.</i> , 39(9):1535-1544, 1996. |
| | PG | Chabaud, M. et al., "Regulation of the effects of IL 17 on IL 6 and LIF production by RA synoviocytes," <i>American College of Rheumatology (ACR) meeting</i> , Poster 1449, November 1997. |
| | PH | Chabaud, M. et al., "Human Interleukin-17: A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium," <i>Arthritis & Rheumatism</i> , 42(5):963-970, 1999. |
| | PI | Chabaud, M. et al., "Contribution of interleukin 17 to synovium matrix destruction in rheumatoid arthritis," <i>Cytokine</i> , 12(7):1092-1099, 2000. |
| | PJ | Chabaud, M. et al., "Enhancing effect of IL-17 on IL-1-Induced IL-6 and leukemia inhibitory factor production by rheumatoid arthritis synoviocytes and its regulation by Th2 cytokines," <i>J. Immunol.</i> , 161:409-414, 1998. |
| | PK | Dudler et al., "In vivo effects of murine recombinant interleukin-17 on synovial joint in mice," <i>American College of Rheumatology (ACR) meeting</i> , Poster 1450, November 1997 |
| | PL | Fossiez et al., "T cell interleukin-17 induces stromal cells to produce proinflammatory and hematopoietic cytokines," <i>J. Exp. Med.</i> , 183:2593-2603, 1996. |
| | PM | Fouilhoux et al., "Production of IL-17 and its regulation in rheumatoid synovium," <i>American College of Rheumatology (ACR) meeting</i> , Poster 1447, 1997. |
| | PN | Joosten et al., "IL-1 α β blockade prevents cartilage and bone destruction in murine type II collagen-induced arthritis, whereas TNF- α blockade only ameliorates joint inflammation," <i>J. Immunol.</i> , 163:5049-5055, 1999. |
| | PO | Jovanovic et al., "Stimulation of 92-kd gelatinase (matrix metalloproteinase 9) production by interleukin-17 in human monocyte/macrophages," <i>Arthritis Rheum.</i> , 43(5):1134-1144, 2000. |
| | PP | Jovanovic, D. et al., "IL-17 stimulates the production and expression of proinflammatory cytokines, IL- β and TNF- α , by human macrophages," <i>J. of Immunol.</i> , 160:3513-3521, 1998. |
| | PQ | Jovanovic, D. et al., "IL-17 stimulates the secretion of proinflammatory cytokines by human macrophages," <i>American College of Rheumatology (ACR) meeting</i> , Poster 1446, November 1997. |

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Kotake, S., "IL-17 in synovial fluids from patients with rheumatoid arthritis is a potent stimulator of osteoclastogenesis," *J. Clin. Invest.*, 103(9):1345-1352, 1999.

PS Lotz et al., IL-17 promotes cartilage degradation," *Arthritis and Rheumatism*, 39 supp.(9):S120, No. 559, 1996.

PT Spriggs, M. K., "Interleukin-17 and its receptor," *J. Clin. Immunol.*, 17(5):366-369, 1997.

PU Yao, Z. et al., "Molecular characterization of the human interleukin (IL)-17 receptor," *Cytokine*, 9(11):794-800, 1997.

PV Yao et al., "Herpesvirus saimiri encodes a new cytokine, IL-17, which binds to a novel cytokine receptor," *Immunity* 3:811-821, 1995.

PW Yao et al., "Complete nucleotide sequence of the mouse *CTLA8* gene," *Gene*, 168:223-225 1996.

PX Yao et al., "Human IL-17: A novel cytokine derived from T cells," *J. Immunol.*, 155:5483-5486, 1995.

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